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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND NORTHWEST
1101 TAUTOG CIRCLE
SILVERDALE, WA 98315-1101

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SEP 17 2007

Environmental
Cleanup Office

5090/BNC OU A 15.1
Ser EV4SJ/5423
September 13, 2007

Ms. Nancy Harney
U. S. Environmental Protection Agency
Region 10
1200 Sixth Avenue
Seattle, WA 98101

Dear Ms. Harney:

Enclosed for your records is one copy of the Action Memorandum for OU A Charleston Beach at Bremerton Naval Complex, Bremerton, WA, dated September 2007.

Please note that the draft Work Plan will be ready for your review on October 26, 2007, and we plan to schedule a review conference call during the week of November 5, 2006.

If you have any questions regarding this document, please contact me at (360) 396-0053 or by email at Suzanna.Jefferis@navy.mil.

Sincerely,

SUZANNA M. JEFFERIS, P.E.
Remedial Project Manager

Enclosure

Copy to:
D. Leisle, PSNS & IMF

USEPA SF



1306452

ACTION MEMORANDUM

**OU A CHARLESTON BEACH
BREMERTON NAVAL COMPLEX**

September 2007

Enclosure (1)

PURPOSE

This Action Memorandum presents the U.S. Navy's decision to perform a time-critical removal action for Operable Unit (OU) A, Bremerton naval complex (BNC), Bremerton Washington, in compliance with Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act/Superfund Amendments and Reauthorization Act (CERCLA/SARA), the National Contingency Plan (NCP) 40 Code of Federal Regulations (CFR) 300, and under authorization of Executive Order 12580, and to the extent possible the Model Toxics Control Act, Washington Administrative Code (WAC) 173-340.

REMOVAL ACTION OBJECTIVES

This time critical removal action (TCRA) is intended to reduce the likelihood of contact with the land fill debris and contaminated soils at OU A, by restoring the OU A armor rock remedy. The removal action will thereby reduce the potential risk to human health and the environment. Actual or threatened releases of hazardous substances from this site, if not addressed by implementing the removal action, may present an imminent endangerment to public health, welfare, and or the environment. This removal action strategy is expected to minimize additional remediation costs, at a reasonable cost, that may otherwise occur if no removal action were taken. This removal action is required to meet the requirements of the Record of Decision (ROD) for OU A.

This TCRA will also include a one time restoration of fish mix on the beach below the armor rock remedy.

The primary goals of the remedial actions are to:

- Minimize any existing risk to occasional site users/workmen from buried landfill debris.
- Restore the remedy at OU A as required by the ROD without causing a net loss of productive capacity of fish and shellfish habitat.

DESCRIPTION OF REMOVAL ACTION

The objective is to repair, cap, and stabilize the OU A remedy per the Record of Decision (ROD) of 16 December 1996 without causing a net loss of productive capacity of fish habitat or infringing on the additional beach habitat that was created as part of the Pier D Mitigation project. This will be accomplished by the following actions:

- Build a sloped armor rock wall along the Charleston Beach Shoreline in the area between to armor rock wing wall and the sheet pile retaining wall. This distance is approximately 120 feet between STA 3+00 and 4+20
- Match the slope/shape, strength, and material of the existing armor rock wall that continues to the South west along the shore of OU A. This armor rock is approximately 4 feet deep at the top and 4 feet deep at the base.

- Place the leading edge of the toe of the armor rock wall at the extreme high water level (EHWL) contour. Design the toe in such a manner to prevent undermining and erosion of the armor rock wall. Restore the beach at the toe of the armor rock.
- Cut back the existing escarpment as needed to allow for placement of the armor rock. Characterize waste and dispose of appropriately.
- Provide an appropriate transition at both ends of the new armor rock retaining wall to prevent further erosion that might undermine the armor rock.
- Restore the parking lot and curb to match existing and to transition smoothly with the existing structures i.e. curb, pavement structure and type, and the sheet pile wall. Fill in disturbed areas with matching vegetation or soil to provide smooth transitions.
- Install fish mix to specifications similar to the Pier D Mitigation project. Study and provide options for fish mix stabilization.

ALTERNATE ACTIONS EVALUATED

Two alternatives were considered. The first was to restore the remedy per the Pier D Mitigation i.e. soft beach with no hard protection for the land fill. This option has failed in the past, so it was not chosen. Also, the OU A ROD requires "erosion protection (additional riprap or stabilized cobble /gravel)". The second was to continue the sheet pile wall between the existing sheet pile wall and the rock wing wall. This option was not chosen because of the high cost and the risk for increased cost involved with placing sheet pile.

REMOVAL ACTION COST AND SCHEDULE

The estimated capital cost for placement of the armor rock is [REDACTED]. The estimated capital cost for the one time placement of fish mix is [REDACTED]. Work is scheduled to be completed approximately 9 months after commencement of this removal action.

APPROVAL

The selected removal action is protective of human health and the environment, complies with federal and state requirements, is cost effective, and is consistent with all reasonable final remedies.



9/5/07

R. S. Tanaka

Date

Captain, U.S. Navy

Commanding Officer, Naval Base Kitsap

STATEMENT OF WORK -

07 Time Critical Removal Action, Bremerton naval complex, OU A Charleston Beach

Contract Number N68711-04-D-1104 TO: XX

Date: July 5, 2007

Revised: July 23, 2007

Revised: August 14, 2007

**NAVAL FACILITIES ENGINEERING COMMAND NORTHWEST
1101 TAUTOG CIRCLE SUITE 203
SILVERDALE WA 98315 1101**

**PERFORMANCE WORK STATEMENT
07 TIME CRITICAL REMOVAL ACTION,
BREMERTON NAVAL COMPLEX (BNC), OU A CHARLESTON BEACH**

1.0 INTRODUCTION

NAVFAC Northwest is acquiring environmental services for the purpose of conducting a Time Critical Removal Action (TCRA) at the Puget Sound Naval Shipyard and Intermediate Maintenance Facility, Bremerton site, FISC, and at Naval Base Kitsap, at Bremerton. The collective area occupied by these Navy commands is hereafter collectively referred to in this task order as the Bremerton naval complex (BNC). The goal of this TCRA is to repair, cap, and stabilize the Operable Unit A (OU A) remedy per the Record of Decision (ROD) of 16 December 1996.

2.0 BACKGROUND

The initial fill at OU A was placed in the 1940's. The site was brought to its present configuration by the placement of additional fill in 1956 and 1971. Beginning in the 1950s, copper slag (grit) and sand blast materials were deposited at OU A.

The ROD documents for Remedial Action (RA) at the BNC, OU A, Missouri Beach Parking Lot, and Charleston Beach was signed on 16 December 1996. The selected OU A remedy included actions to control erosion, upgrade site paving, enhance marine and terrestrial habitats, develop and implement institutional controls, and conduct a groundwater and remedial action monitoring program for a period of five years with a review of remedial measures every five years. The OU A remediation was implemented by constructing (or confirming that the existing rip-rap was protective) a shoreline protection system and paving the Missouri Parking lot. Construction began in January 1998 and was completed in August 1998.

Between December 2001 and April 2002, a mitigation action was conducted to increase the upper inter-tidal habitat at Charleston Beach. This mitigation project was done as an offset for the Pier D MCON construction. Part of this mitigation included removing the rip-rap armor wall that comprised part of the OU A ROD remedy and replacing it with a soft bank sloped beach covered with fish mix gravel. This was done approximately between STA 4+20 and 3+00. Washington Department of Ecology deemed that this soft beach was protective per ROD for OU A as long as "scouring is not excessive" (Ref. 3 page 1-5).

As of April 2007 this section of soft beach has been scoured so that the fish soft embankment that makes up the edge of OU A has been eroded back into the fill thus releasing fill debris onto the beach (copper slag, contaminated soils and other metal debris). The OU A remedy per the ROD has failed. See the Attached photographs for details. As-Built 2002 is the remedy that the Washington Department of Ecology deemed as protective. April 2007 is the same area after severe scouring that has caused the remedy to fail.

The current situation at Charleston Beach has been identified in the Second Five -Year Review Bremerton naval complex (Ref. 4).

3.0 SCOPE OBJECTIVE

The objective of this task order is to repair, cap, and stabilize the Operable Unit A (OU A) remedy per the Record of Decision (ROD) of 16 December 1996 and to do it in such a way that the repair does not infringe on the beach area

below MHHWL or on the fish habitat per the agreements made by the Navy as part of the Pier D Mitigation. This scope will also include two pre priced options for replenishing the fish mix along this section of the beach after the remedy repair is constructed.

4.0 APPLICABLE DIRECTIVES AND DOCUMENTS:

The contractor shall adhere to the following documents in accordance with paragraph 5.0 - Performance Requirements		
Reference #	Title	Date
1	Final Record of Decision Operable Unit A Missouri Parking Lot and Charleston Beach	December 1996
2	Addendum to Biological Assessment Nimitz Class Aircraft Carriers Home- porting and Maintenance Berth Improvements BNC	2 November 2001
3	Final Closure Report Charleston Beach Habitat Restoration Project BNC	28 June 2002
4	Second Five-Year Review BNC (slated for signature by the Navy (Captain Tanaka) by 30 October 2007)	August 2007
5	Final Site Work Plan Charleston Beach Habitat Restoration	29 October 2001

5.0 PERFORMANCE REQUIREMENTS

The contractor shall provide all applicable plans, data, and reports (i.e. QC, SHSP, and Electronic Submittals) in accordance with Section C, General Contract Requirements, of the Basic Contract, plus provide the technical effort in the work areas listed below in accordance with the tasks and their associated schedules as described below.

The contractor shall complete all work in accordance with the performance requirements indicated in Table 5.1: "Performance Requirements Summary". The contractor shall provide the technical effort in the work areas listed below in accordance with the tasks and their associated schedules as described below.

TASK 5.1: Project Management

TASK 5.2: Project Plans (Letter Report Work Plans and Health, Safety Plan, and QC)

TASK 5.3: Biological Assessment (BA)

TASK 5.4: Design/Build Specifications for OU A Remedy Repair

TASK 5.5: Sampling and Analysis and Waste Disposal

TASK 5.6: Closure Report

TASK 5.7: Fish Mix Replenishment Options 1 and 2

Task 5.1 Project Management

Provide project management for the duration of this project. The contractor shall conduct all necessary program management actions to ensure this task order remains on schedule. Management activity includes routine project administration, correspondence, scheduling, cost tracking, budgeting, and preparing monthly invoices. Included in this task are such items as mobilizing the project team, providing on-going team coordination, planning, scheduling, and maintaining communications with the Navy. The program manager is responsible for notifying NAVFAC NW Remedial Project Manager (RPM) of any problems that arise and to identify corrective actions. The contractor shall provide the personnel, equipment, materials, and facilities to accomplish the required tasks outlined in the Statement of Work and shall comply with the Navy Installation Restoration Manual and appropriate federal, state, and local regulations.

The period of performance for this project is estimated at 13 months. This task does not include project management effort for the pre priced options in Task 5.7.

Task 5.2 Project Plans (Work Plan, Health, Safety Plan, and Quality Control Plan)

The contractor shall prepare internal draft, draft, and final Project Plans to include the Work Plan, health and Safety Plan, Sampling and Analysis Plan, Spill prevention Plan for heavy equipment, and the Quality Assurance Plan in accordance with the schedule in 6.0. The contractor shall provide a written response to comments for each draft project plan submitted. The Work Plan will include all the design build specifications for this project that are required in Tasks 5.4 and 5.5. This task does not include Project Plan effort for the pre priced options in Task 5.7. Project plans from Task 5.7 will be included as an appendix to the Task 5.2 project plans.

Task 5.3 Biological Assessment

The Government will provide the Biological assessment (BA). The contractor shall ensure that the results of the BA are incorporated into the final Project Plans. The government will conduct all necessary outside agency (NOAA and USFWS) coordination to receive approval of the BA prior to the start of field work. The contractor shall coordinate with the government biologist to ensure the final BA is incorporated appropriately into the Project Plans. This task does not include Biological Assessment effort for the pre priced options in Task 5.7.

Task 5.4 Design Build Specifications for OU A Remedy Repair

- Construction shall be completed no later than March 1, 2008.
- Care shall be taken to prevent any petroleum products, chemicals, or other toxic or deleterious material from entering the water. Silt fences shall be placed during construction to prevent sediments from entering the water or migrating away from the work site. During construction, booms will be placed around the construction site to contain oil or other floating material that may be released from sediments or construction equipment.
- All construction debris and excavated material shall be properly disposed of (contained and treated as required) on land so that it cannot enter the waterway or cause water quality degradation.
- All construction and disposal activities will be conducted in accordance with the BNC hazardous substance spill prevention, control and countermeasure plan.
- If the parking lot is disturbed, restore the parking lot curb and pavement to line up with and match the existing parking lot and curb. Replace top soil and vegetation to match existing as required between the parking lot and armor rock.
- Contractor shall conduct a pre and post construction survey.
- Remove and dispose of the landfill debris that has fallen on to the beach.
- Although some work may be done at or below the EHWL (+14.67 feet), no in water work will be done. Work must be scheduled during low tide events.
- Build a sloped armor rock wall along the Charleston Beach Shoreline in the area between to armor rock wing wall and the sheet pile retaining wall. This distance is approximately 120 feet between STA 3+00 and 4+20
- Match the slope/shape, strength, and material of the existing armor rock wall that continues to the South west along the shore of OU A. This armor rock is approximately 4 feet deep at the top and 4 feet deep at the base and built at a 1 to 1 slope.
- Place the leading edge of the toe of the armor rock wall at or above EHWL where ever possible. If this is not possible in every location, account for the lost habitat at another location along the armor rock wall by placing the rock farther up the beach. Design the toe in such a manner to prevent undermining and erosion of the armor rock wall. Restore the beach at the toe of the armor rock.
- Cut back the existing escarpment as needed to allow for placement of the armor rock. Sample the removed material for waste characterization and dispose of appropriately.
- Provide an appropriate transition at both ends of the new armor rock retaining wall i.e. at the end with the armor rock wing wall and at the end with the sheet piling to prevent further erosion that might undermine the armor rock.
- Restore the parking lot and curb to match existing and to transition smoothly with the existing structures i.e. curb, pavement structure and type, and the sheet pile wall. Fill in disturbed areas with matching vegetation or soil to provide smooth transitions.
- Mobilization is included in this task. If Option 1 from Task 5.7 is chosen, the mobilization effort will share the mobilization of Task 5.4.

Task 5.5 Sampling and Analysis and Waste Disposal

Sub Task 5.5.1 Field Sampling and Analysis:

Provide soil sampling and analysis to support Site Health and Safety plans for providing guidance to workers concerning possible contaminants present at the site. This task does not include sampling and analysis or waste disposal effort for the pre priced options in Task 5.7.

Sub Task 5.5.2 Sampling and Analysis for Waste Disposal:

Provide soil sampling and analysis to support waste disposal for the excavation and disposal of the fill at OU A. Assume non-hazardous wastes.

Task 5.6 Closure Report

Provide a Closure Report to include a description of all the work accomplished on this TO including background, design drawings, a description of materials used, pre and post survey photographs and drawings, and as-built drawings. Provide all sampling and analysis data. Include the BA as an appendix.

The contractor shall submit an internal draft 30 calendar days after the completion of the construction work.

The contractor shall submit a draft report incorporating all resolutions to Navy comments on the internal draft. The draft report shall be submitted 21 days from receipt of the internal draft comments.

The contractor shall submit a final report incorporating all resolutions to Navy and regulator comments on the draft. The final report shall be submitted no later than 21 days after receipt of the draft comments.

This task does not include Closure Report effort for the pre priced options in Task 5.7. Include the closure report for Task 5.7 in an appendix of the Task. 5.6 closure report.

Task 5.7 Fish Mix Replenishment Pre Negotiated Options

Install fish mix in the area below the newly installed armor rock. The fish mix shall be per the specifications in Ref. 5 and shall be placed over the armor rock up to the elevation of +15 feet NGVD29. The fish mix will extend from the rock rip rap wing wall on the west end of the beach, extend east to STA 4+20 (the beginning of the sheet pile retaining wall) and taper smoothly on the east end of the new armor rock in order to blend in with the beach below the sheet piling. Design improvements beyond the specifications in Ref. 5 may be incorporated.

Options 1 and 2 will provide effort for Project Management, Project Plan (Work Plan, Health and Safety Plan, QC Plan), Biological Assessment, and Closure Report separately from the OU A Remedy armor rock placement.

The term for exercising these options is 180 days after the award of this TO.

The duration of each of these options is 4 months.

Task 5.7.1 Option 1 Install Fish mix using the same mobilization as the armor rock installation.

Task 5.7.2 Option 2 Install Fish mix using a stand alone mobilization.

6.0 DELIVERABLES

TASK REF.	DELIVERABLE ITEM / EVENT	DURATION (days from award or prior task*)	No. Hard / Electronic Copies
	TO Award	Approximate date: 30 August 2007	
5.2	Work Plan, Health and Safety Plan, and QA Plan		
	Internal Draft	5 October 2007	2H, 2E
	Government Comments	12 October 2007	
	Draft	26 October 2007	2H, 4E
	Review Conference Call	Week of November 5th	
	Final	19 November 2007	4H,4E
5.6	Closure Report		
	Internal Draft	31 January 2008	2H, 2E
	Government Comments	15 February 2008	
	Draft	07 March 2008	2H, 4E
	Final	30 April 2008	4H,4E

*Days are calendar days

The submittal of all deliverables, sampling data and laboratory data packages, required under this Delivery Order shall be in accordance with the Navy's most recent Standard Operating Procedure (SOP). An updated copy of the Gantt chart will be provided to the RPM and COR via email on a monthly basis.

The Period of performance for this task order is from award until 30 April 2008.

7.0 POINTS OF CONTACT:

Naval Facilities Engineering Command Northwest
1101 Tautog Circle
Silverdale, Wa. 98315
Fax: (360) 396-0857

Environmental Project Manager
Suzanna Jefferis (360)396-0053
Suzanna.jefferis@navy.mil

Field Support Manager/COTR
Michael Carsley (360) 396-0143
Michale.carsley@navy.mil

Contracting Officer
Navy Technical Representative
John Pittz (360)396-0005
John.pittz@navy.mil

Table 5.1: Performance Requirements Summary

Project Name:	Contract & Task Order No: / CTO-	Remedial Project Manager:	RPM Phone: (360)
Contractor:	Date Prepared:	Navy Technical Rep:	NTR Phone: Office Cell

CPAR Area of Evaluation	Performance Requirement	Task Reference	Acceptable Quality Level AQL	Performance Assessment Method	Rating Incentive Detail
Quality of Product or Service	Receive reports free from defects or errors (ensure the contractor has an acceptable quality control system.)	5.2 5.5 5.7	Majority of comments due to technical issues. No more than 5 technical editing type comments.	RPM	
Schedule	Receive reports within the specified time.	5.2 5.5 5.6 5.7	Received + or – 2 days from the scheduled due date	RPM	
Business Relations	Construction Requirements (Schedule)	5.4 5.7	Work done within 5 working day of planned schedule	RPM/NTR	
	Construction Requirements (Built to Specification)	5.4 5.7	Built to specification with no change orders.	RPM/NTR	
	Meet current safety requirements of federal law.	5.4 5.7	No injury or lost time accidents.	NTR	